INTERNATIONAL SEARCH REPORT

International application No.

A. CL	A SCHEIGA TIVON OF THE	PCT/US03/0	04941
PC(7)	ASSIFICATION OF SUBJECT MATTER : B01D 53/06		
US CL	: 96/125, 131, 146, 154		
According	to International Patent Classification (TDC) and a back		
B. FIE	to International Patent Classification (IPC) or to both	national classification and IPC	
U.S. :	documentation searched (classification system followed 96/125, 126, 131, 143, 146, 154	by classification symbols)	
Documenta	tion searched other than minimum documentation to th	e extent that such documents are inclu	ded in the fields searched
Electronic (Please See	data base consulted during the international search (nat	ne of data base and, where practicable	, search terms used)
C. DO	CUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where	appropriate, of the relevant passage	7.1
Y	1 00 0,000,120 A (ALCODUCAR) III. December 100	7 (02.12.1997) photost forms	Relevant to claim No
₹7			
Y Y	US 5,308,457 A (DALLA BETTA et al) 03 May 1 to col. 5, line 2		58 1-18
1	US 4,331,631 A (CHAPMAN et al) 25 May 1982	(25.05.1982), col. 6, lines 3-14	3-6 and 11-13
Y	US 5,854,171 A (NICOLAU et al) 29 December 19		8, 18
A	US 5,891,219 A (KLOBUCAR et al) 06 April 1999		1-18
-			
Furthe	r documents are listed in the continuation of Box C.		1
	Special categories of cited documents:	See patent family anney	
		See patent family annex.	A laboratory LTV
,	at defining the general state of the art which is not considered to be ular relevance	"T" later document published after the date and not in conflict with the aprinciple or theory underlying the	
earlier ar	at defining the general state of the art which is not considered to be ular relevance pplication or patent published on or after the international filing date	"T" later document published after the date and not in conflict with the aprinciple or theory underlying the "X" document of particular relevance considered novel or cannot be considered.	application but cited to understand the invention the claimed invention cannot be
earlier ap documen establish specified	at defining the general state of the art which is not considered to be ular relevance polication or patent published on or after the international filing date at which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"T" later document published after the date and not in conflict with the aprinciple or theory underlying the "X" document of particular relevance considered novel or cannot be cowhen the document is taken along "Y" document of particular relevance.	application but cited to understand the invention it the claimed invention cannot be unsidered to involve an inventive step
earlier ag documen establish specified documen	at defining the general state of the art which is not considered to be ular relevance oplication or patent published on or after the international filing date at which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as)	"T" later document published after the date and not in conflict with the aprinciple or theory underlying the "X" document of particular relevance considered novel or cannot be cowhen the document is taken along "Y" document of particular relevance considered to involve an inventive	application but cited to understand the invention the claimed invention cannot be insidered to involve an inventive step in the claimed invention cannot be estep when the document is such designation.
documen establish specified o documen documen priority d	at defining the general state of the art which is not considered to be ular relevance opplication or patent published on or after the international filing date at which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as). It referring to an oral disclosure, use, exhibition or other means at published prior to the international filing date but later than the late claimed	"T" later document published after the date and not in conflict with the aprinciple or theory underlying the document of particular relevance considered novel or cannot be considered novel or cannot be considered novel or cannot be considered to involve an inventive considered to involve an inventive combined with one or more other being obvious to a person skilled document member of the same page."	the claimed invention cannot be insidered to involve an inventive step in the claimed invention cannot be estep when the document is such documents, such combination in the art
documen establish specified documen of documen documen priority date of the a	at defining the general state of the art which is not considered to be ular relevance opplication or patent published on or after the international filing date at which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as) It referring to an oral disclosure, use, exhibition or other means at published prior to the international filing date but later than the late claimed Ctual completion of the international search	"T" later document published after the date and not in conflict with the aprinciple or theory underlying the document of particular relevance considered novel or cannot be considered novel or cannot be considered novel or cannot be considered to particular relevance considered to involve an inventive combined with one or more other being obvious to a person skilled	application but cited to understand the invention it the claimed invention cannot be insidered to involve an inventive step in the claimed invention cannot be estep when the document is such documents, such combination in the art
documen establish specified or documen establish specified or documen priority documen priority date of the a	at defining the general state of the art which is not considered to be ular relevance opplication or patent published on or after the international filing date at which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as). It referring to an oral disclosure, use, exhibition or other means at published prior to the international filing date but later than the late claimed cities of the international search (03.07.2003)	"T" later document published after the date and not in conflict with the aprinciple or theory underlying the "X" document of particular relevance considered novel or cannot be considered novel or cannot be considered novel or cannot be considered to involve an inventive combined with one or more other being obvious to a person skilled "&" document member of the same particular of mailing of the international section."	application but cited to understand the invention the claimed invention cannot be invention to involve an inventive step to the claimed invention cannot be estep when the document is such documents, such combination in the art usent family
document establish specified or document priority document priority date of the a 3 July 2003 ame and magnetic and specified or document priority document priority date of the a 3 July 2003 ame and magnetic and magnetic priority document priority	at defining the general state of the art which is not considered to be ular relevance population or patent published on or after the international filing date of another citation or other special reason (as the publication date of another citation or other special reason (as) It referring to an oral disclosure, use, exhibition or other means at published prior to the international filing date but later than the late claimed Could completion of the international search (03.07.2003) ailing address of the ISA/US	"X" document opposition of particular relevance considered novel or cannot be cowhen the document of particular relevance considered novel or cannot be cowhen the document is taken alone "Y" document of particular relevance considered to involve an inventive combined with one or more other being obvious to a person skilled document member of the same particular of mailing of the international states and particular relevance considered to involve an inventive combined with one or more other being obvious to a person skilled document member of the same particular of mailing of the international states and particular relevance considered to involve an inventive combined with one or more other being obvious to a person skilled document member of the same particular relevance considered to involve an inventive combined with one or more other being obvious to a person skilled document member of the same particular relevance considered novel or cannot be cons	application but cited to understand the invention cannot be invention cannot be invention cannot be usidered to involve an inventive step is the claimed invention cannot be estep when the document is such documents, such combination in the art utent family
documen establish specified or documen priority documen priority date of the a July 2003 ame and ma	at defining the general state of the art which is not considered to be ular relevance population or patent published on or after the International filing date of another citation or other special reason (as the publication date of another citation or other special reason (as) It referring to an oral disclosure, use, exhibition or other means at published prior to the international filing date but later than the late claimed Cutual completion of the international search (03.07.2003) ailing address of the ISA/US il Stop PCT, Atm: ISA/US	"X" document opposition of particular relevance considered novel or cannot be cowhen the document of particular relevance considered novel or cannot be cowhen the document is taken alone "Y" document of particular relevance considered to involve an inventive combined with one or more other being obvious to a person skilled document member of the same particular of mailing of the international states and particular relevance considered to involve an inventive combined with one or more other being obvious to a person skilled document member of the same particular of mailing of the international states and particular relevance considered to involve an inventive combined with one or more other being obvious to a person skilled document member of the same particular relevance considered to involve an inventive combined with one or more other being obvious to a person skilled document member of the same particular relevance considered novel or cannot be cons	application but cited to understand the invention cannot be invention cannot be invention cannot be insidered to involve an inventive step is the claimed invention cannot be estep when the document is such documents, such combination in the art utent family
documen establish specified documen establish specified documen priority date of the a July 2003 ame and mark Mail	at defining the general state of the art which is not considered to be ular relevance opplication or patent published on or after the international filing date at which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as it referring to an oral disclosure, use, exhibition or other means at published prior to the international filing date but later than the late claimed ctual completion of the international search (03.07.2003) alling address of the ISA/US ill Stop PCT, Atm: ISA/US mmissioner for Patents D. Box 1450	"X" document of particular relevance considered novel or cannot be cowhen the document of particular relevance considered novel or cannot be cowhen the document is taken alone "Y" document of particular relevance considered to involve an inventive combined with one or more other being obvious to a person skilled "&" document member of the same particular of mailing of the international services and particular relevance considered to involve an inventive combined with one or more other being obvious to a person skilled "&" document member of the same particular of mailing of the international services and particular relevance considered to involve an inventive combined with one or more other being obvious to a person skilled "&" Authorized officer Frank M. Lawrence	application but cited to understand the invention cannot be invention cannot be invention cannot be usidered to involve an inventive step is the claimed invention cannot be estep when the document is such documents, such combination in the art utent family
documen establish specified documen establish specified documen priority date of the a B July 2003 ame and marked and marked by the specified of the a B July 2003 ame and marked by the specified by the specif	at defining the general state of the art which is not considered to be ular relevance pplication or patent published on or after the international filing date at which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as) It referring to an oral disclosure, use, exhibition or other means at published prior to the international filing date but later than the late claimed citual completion of the international search (03.07.2003) ailing address of the ISA/US ill Stop PCT, Atm: ISA/US mmissioner for Patents	"X" document of particular relevance considered novel or cannot be co when the document of particular relevance considered novel or cannot be co when the document is taken alone "Y" document of particular relevance considered to involve an inventive combined with one or more other being obvious to a person skilled "&" document member of the same particular of mailing of the international services and particular relevance considered to involve an inventive combined with one or more other being obvious to a person skilled document member of the same particular of mailing of the international services and particular relevance considered to involve an inventive combined with one or more other being obvious to a person skilled document member of the same particular relevance considered to involve an inventive combined with one or more other being obvious to a person skilled document member of the same particular relevance considered novel or cannot be consi	application but cited to understand the invention cannot be invention cannot be invention cannot be usidered to involve an inventive step is the claimed invention cannot be estep when the document is such documents, such combination in the art utent family

INTERNATIONAL SEARCH REPORT	PCT/US03/04941	

i e		
1		
	•	
Continuation of D. Effet Do Grand		
Continuation of B. FIELDS SEARCHED Item 3: DERWENT		
search terms: honeycomb rotary adsorbent		
and the state of t		
	•	
•		
		i
		j
		•
		İ
		(
		ĺ
Form PCT/ISA/210 (second sheet) (July 1998)		